

ABSTRACT OF THE DISCLOSURE

A motor controller is provided. This motor controller comprises, a synchronous motor, a feed back detector which is
5 mounted on the synchronous motor and detects the position and velocity of the rotor of the synchronous motor, magnetic pole position detection means for detecting an magnetic pole position of the rotor of the synchronous motor, inverter means for controlling an electric power to be supplied to the
10 synchronous motor according to the magnetic pole position detected by the magnetic pole position detection means, magnetic pole position estimation means for estimating the magnetic pole position of the rotor of the synchronous motor from the induced voltage of the stator windings of the
15 synchronous motor, and magnetic pole position abnormality detection means for detecting the abnormality of the feed back detector by always comparing the magnetic pole position detected by the magnetic pole position detection means and the estimated magnetic pole position estimated by the magnetic pole
20 position estimation means.